

New Laptop CPU Performance

This chart comparing performance of CPUs designed for laptop and portable machines is made using thousands of [PerformanceTest](#) benchmark results and is updated daily.

Notes:

- While we try to keep this chart mainly desktop CPU free, there might be some desktop processors in the list. This is because the classification of a laptop CPU is determined at result submission time by the user of PerformanceTest. Some users incorrectly clicked the "Laptop" check box.
- The chart shows only CPUs that had their benchmark first submitted within the last 36 months. Older laptop CPUs may not appear.

 CPU

 High End

High Mid RangeLow Mid RangeLow End

 Best Value (On Market)

Best Value XY Scatter

Best Value (All time)

 New Desktop

New Laptop

 Single Thread

Systems with Multiple CPUs

Overclocked

Power Performance

CPU Mark by Socket Type

Cross-Platform CPU Performance

 CPU Mega List

Search Model

CPU Mark	Price Performance	Sorted by Date
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PassMark - CPU Mark			
Laptop & Portable CPU Performance			
Updated 22nd of February 2022			
CPU	CPU Mark		Price (USD)
 Intel Core i9-12900H		32,483	\$617.00*
 Intel Core i7-12700H		28,501	\$457.00*
 Intel Xeon W-11955M @ 2.60GHz		24,231	\$623.00*
 Intel Core i9-12900HK		23,859	\$635.00*
 Apple M1 Pro 10 Core 3200 MHz		23,553	NA
 Apple M1 Max 10 Core 3200 MHz		23,468	NA
 AMD Ryzen 9 5980HX		23,433	NA
 Intel Core i9-11980HK @ 2.60GHz		23,378	\$583.00*
 AMD Ryzen 9 5900HX		23,219	NA
 Intel Core i7-1270P		22,842	NA
 Intel Core i9-11950H @ 2.60GHz		22,677	\$556.00*
 AMD Ryzen 9 5900HS		22,283	NA
 Intel Core i9-11900H @ 2.50GHz		21,956	\$546.00*
 Intel Core i7-11850H @ 2.50GHz		21,621	\$395.00*
 Intel Core i7-11800H @ 2.30GHz		21,587	\$395.00*
 AMD Ryzen 9 5980HS		21,529	NA
 AMD Ryzen 7 5800H		21,495	NA
 AMD Ryzen 7 5800HS Creator Edition		21,026	NA
 AMD Ryzen 9 5900H		20,960	NA
 AMD Ryzen 7 5800HS		20,766	NA
 Intel Core i5-12450H		19,820	\$311.00*



Compare

0



CPU Benchmarks



Most Benchmarked

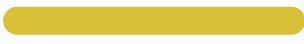


AMD vs Intel Market Share

Year on Year Performance



[AMD Ryzen 9 4900HS](#)



[19,510](#)

[NA](#)



[AMD Ryzen 9 4900HS](#)



[19,510](#)

[...](#)



[AMD Ryzen 7 4800H](#)

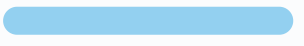


[19,079](#)

[NA](#)



[AMD Ryzen 7 5800U](#)



[18,994](#)

[NA](#)



[AMD Ryzen 7 4800HS](#)



[18,872](#)

[NA](#)



[AMD Ryzen 7 Extreme Edition](#)

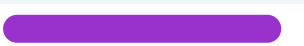


[18,209](#)

[NA](#)



[Apple M1 Pro 8 Core 3200 MHz](#)



[18,190](#)

[NA](#)



[AMD Ryzen 7 PRO 5850U](#)



[17,853](#)

[NA](#)



[AMD Ryzen 5 5600H](#)



[17,164](#)

[NA](#)



[AMD Ryzen 7 4800U](#)



[17,073](#)

[NA](#)



[Intel Core i7-10700E @ 2.90GHz](#)



[17,020](#)

[\\$330.00*](#)



[Intel Core i5-11500H @ 2.90GHz](#)



[16,513](#)

[\\$250.00*](#)



[Intel Core i9-10980HK @ 2.40GHz](#)



[16,397](#)

[\\$583.00*](#)



[Intel Core i7-10700TE @ 2.00GHz](#)

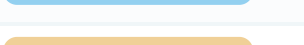


[16,332](#)

[\\$330.00*](#)



[AMD Ryzen 7 5700U](#)



[16,237](#)

[NA](#)



[Intel Core i5-11400H @ 2.70GHz](#)



[16,130](#)

[\\$250.00*](#)



[Intel Core i7-11600H @ 2.90GHz](#)

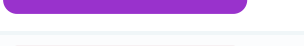


[16,030](#)

[\\$395.00*](#)



[Intel Xeon W-10885M @ 2.40GHz](#)

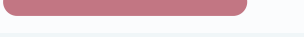


[16,013](#)

[\\$623.00*](#)



[Intel Core i9-10885H @ 2.40GHz](#)



[15,871](#)

[\\$556.00*](#)



[Intel Xeon E-2286M @ 2.40GHz](#)



[15,580](#)

[\\$1,373.18*](#)



[AMD Ryzen 7 PRO 4750U](#)



[15,521](#)

[NA](#)



[AMD Ryzen 5 PRO 5650U](#)



[15,503](#)

[NA](#)



[Intel Core i7-10875H @ 2.30GHz](#)



[15,502](#)

[\\$450.00*](#)



[AMD Ryzen 5 5600U](#)

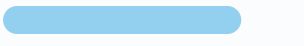


[15,442](#)

[NA](#)



[Apple M1 8 Core 3200 MHz](#)



[15,109](#)

[NA](#)



[Intel Core i7-10870H @ 2.20GHz](#)



[15,095](#)

[\\$417.00*](#)



[Intel Core i5-11260H @ 2.60GHz](#)

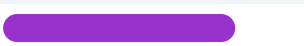


[15,075](#)

[\\$250.00*](#)



[Intel Core i9-10880H @ 2.30GHz](#)



[15,064](#)

[NA](#)



[AMD Ryzen 5 PRO 4400GE](#)



[14,795](#)

[NA](#)



[Intel Core i9-9980HK @ 2.40GHz](#)



[14,795](#)

[\\$583.00*](#)



[AMD Ryzen 5 4600H](#)



[14,766](#)

[NA](#)



[AMD Ryzen 5 4600HS](#)



[14,735](#)

[NA](#)



[Intel Core i9-9880H @ 2.30GHz](#)



[14,026](#)

[\\$556.00*](#)



[AMD Ryzen 7 4700U](#)



[13,687](#)

[NA](#)



[AMD Ryzen 5 4600U](#)

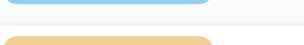


[13,603](#)

[NA](#)



[AMD Ryzen 5 5500U](#)



[13,194](#)

[NA](#)



[Intel Xeon W-10855M @ 2.80GHz](#)



[13,104](#)

[\\$450.00*](#)



[AMD Ryzen 5 PRO 4650U](#)

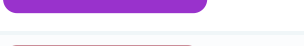


[12,949](#)

[NA](#)



[Intel Core i7-10750H @ 2.60GHz](#)

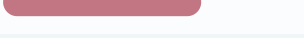


[12,407](#)

[NA](#)



[Intel Core i7-11375H @ 3.30GHz](#)



[12,340](#)

[\\$482.00*](#)



[Intel Core i7-11370H @ 3.30GHz](#)



[12,289](#)

[\\$426.00*](#)



[AMD Ryzen 3 5425U](#)



[12,269](#)

[NA](#)



[Intel Core i7-1260P](#)



[12,224](#)

[NA](#)



[Intel Core i7-10850H @ 2.70GHz](#)



[12,137](#)

[\\$395.00*](#)



[AMD Ryzen 5 PRO 4500U](#)

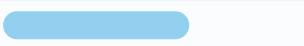


[12,049](#)

[NA](#)



[AMD Ryzen 3 PRO 5450U](#)

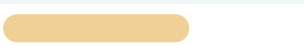


[12,047](#)

[NA](#)



[Intel Xeon E-2276M @ 2.80GHz](#)



[11,993](#)

[\\$450.00*](#)



[AMD Ryzen 3 5400U](#)



[11,867](#)

[NA](#)



[Intel Core i7-1185G7E @ 2.80GHz](#)



[11,645](#)

[\\$431.00*](#)

⌵	Intel Core i5-10500H @ 2.50GHz		11,618	\$250.00*	
⌵	Intel Core i7-9850H @ 2.60GHz		11,539	\$1,305.76*	

 CPU Benchmarks

▼

⌵	Intel Core i5-11320H @ 3.20GHz		11,396	\$309.00*	
⌵	Intel Core i7-1195G7 @ 2.90GHz		11,269	\$426.00*	
⌵	Intel Core i7-9750H @ 2.60GHz		11,218	\$960.00*	
⌵	Intel Core i7-11390H @ 3.40GHz		11,172	\$426.00*	
⌵	Intel Core i5-11300H @ 3.10GHz		11,156	\$309.00*	
⌵	AMD Ryzen 5 4500U		11,137	NA	
⌵	Intel Core i7-1185G7 @ 3.00GHz		11,036	\$426.00*	
⌵	AMD Ryzen 3 PRO 4200GE		10,930	NA	
⌵	Intel Core i7-9700TE @ 1.80GHz		10,826	\$323.00*	
⌵	Intel Core i7-1165G7 @ 2.80GHz		10,607	\$426.00*	
⌵	Intel Core i5-1145G7 @ 2.60GHz		10,594	NA	
⌵	Intel Core i5-1155G7 @ 2.50GHz		10,565	\$309.00*	
⌵	Intel Core i7-1160G7 @ 1.20GHz		10,316	\$426.00*	
⌵	Intel Core i7-1068NG7 @ 2.30GHz		10,241	\$426.00*	
⌵	Intel Core i5-1130G7 @ 1.10GHz		10,197	\$309.00*	
⌵	Intel Core i5-1135G7 @ 2.40GHz		10,150	\$309.00*	
⌵	AMD Ryzen 3 PRO 4450U		10,139	NA	
⌵	AMD Ryzen 3 5300U		10,114	NA	
⌵	Intel Core i7-10710U @ 1.10GHz		10,095	\$644.99*	
⌵	Intel Core i3-1125G4 @ 2.00GHz		9,971	NA	
⌵	Intel Core i5-1038NG7 @ 2.00GHz		9,728	\$320.00*	
⌵	Intel Core i5-9500TE @ 2.20GHz		9,212	\$192.00*	
⌵	Intel Core i7-9850HL @ 1.90GHz		9,112	\$395.00*	
⌵	Intel Core i5-10400H @ 2.60GHz		9,022	\$250.00*	
⌵	Intel Core i7-1065G7 @ 1.30GHz		8,737	\$426.00*	
⌵	Intel Core i5-10300H @ 2.50GHz		8,730	\$250.00*	
⌵	Intel Core i5-10200H @ 2.40GHz		8,507	\$250.00*	
⌵	Intel Core i7-8569U @ 2.80GHz		8,494	\$431.00*	
⌵	Intel Core i5-1035G7 @ 1.20GHz		8,376	\$320.00*	
⌵	Intel Core i5-9400H @ 2.50GHz		8,357	\$250.00*	
⌵	Intel Core i7-10810U @ 1.10GHz		8,353	\$443.00*	
⌵	AMD Ryzen 7 3750H		8,276	NA	
⌵	Intel Core i5-1035G4 @ 1.10GHz		8,263	\$309.00*	
⌵	Intel Core i7-8557U @ 1.70GHz		8,225	\$431.00*	
⌵	Intel Core i5-8279U @ 2.40GHz		8,116	\$320.00*	
⌵	Intel Core i5-8269U @ 2.60GHz		8,055	\$320.00*	
⌵	Intel Core i5-8260U @ 1.60GHz		7,854	\$439.99*	
⌵	AMD Ryzen 5 2600H		7,836	NA	
⌵	Intel Core i5-9300H @ 2.40GHz		7,824	\$250.00*	
⌵	AMD Ryzen 5 3580U		7,820	NA	
⌵	Intel Core i5-1035G1 @ 1.00GHz		7,770	\$297.00*	
⌵	Intel Core i5-9300HF @ 2.40GHz		7,702	\$250.00*	
⌵	Intel Core i5-8257U @ 1.40GHz		7,652	\$320.00*	
⌵	AMD Ryzen 3 4300U		7,591	NA	
⌵	AMD Ryzen 7 3780U		7,549	NA	
⌵	Intel Core i7-7820EQ @ 3.00GHz		7,453	\$378.00*	
⌵	Intel Core i3-10100T @ 3.00GHz		7,426	\$122.00*	

AMD Ryzen 7 3700U		7,331	NA
AMD Ryzen 7 PRO 3700U		7,312	NA

 CPU Benchmarks

AMD Ryzen 5 3500U		7,109	NA
AMD Ryzen 3 PRO 3200GE		7,071	NA
Intel Core i7-10610U @ 1.80GHz		7,024	\$409.00*
AMD Ryzen 5 PRO 3500U		6,916	NA
Intel Core i7-10510U @ 1.80GHz		6,869	\$409.00*
AMD Ryzen 5 3450U		6,829	NA
Intel Core i5-10310U @ 1.70GHz		6,676	\$297.00*
Intel Core i7-1180G7 @ 1.30GHz		6,607	\$426.00*
Intel Core i7-8665U @ 1.90GHz		6,463	\$704.49*
Intel Core i5-10210U @ 1.60GHz		6,431	\$702.62*
Intel Core i3-1115G4 @ 3.00GHz		6,346	\$281.00*
Intel Core i5-8365U @ 1.60GHz		6,311	\$539.07*
Intel Core i5-1030NG7 @ 1.10GHz		6,252	NA
Intel Core i7-8565UC @ 1.80GHz		6,187	NA
AMD Ryzen 3 PRO 3300U		6,134	NA
Intel Core i5-8265UC @ 1.60GHz		5,988	NA
AMD Ryzen 3 3350U		5,960	NA
AMD Ryzen 3 3300U		5,867	NA
Intel Core i5-7440EQ @ 2.90GHz		5,711	\$250.00*
Intel Core i5-8365UE @ 1.60GHz		5,555	\$297.00*
Intel Pentium Gold 7505 @ 2.00GHz		5,368	NA
Intel Core i7-10510Y @ 1.20GHz		5,289	\$403.00*
Intel Core i3-1005G1 @ 1.20GHz		5,149	\$281.00*
Intel Core i5-10210Y @ 1.00GHz		4,836	NA
Intel Pentium 6805 @ 1.10GHz		4,735	\$161.00*
Intel Core i7-8665UE @ 1.70GHz		4,693	\$409.00*
Intel Core i5-6442EQ @ 1.90GHz		4,598	\$250.00*
AMD Athlon Silver 3050GE		4,545	NA
Intel Core i3-9100TE @ 2.20GHz		4,501	\$122.00*
Intel Pentium Silver N6005 @ 2.00GHz		4,480	NA
Intel Core i3-8140U @ 2.10GHz		4,472	NA
AMD Athlon 220GE		4,471	\$116.20
Microsoft ARM SQ1 @ 3.0 GHz		4,371	NA
Intel Core i5-6350HQ @ 2.30GHz		4,255	\$306.00*
AMD Ryzen 5 3500C		4,235	NA
Intel Core i3-8145UE @ 2.20GHz		4,133	\$281.00*
AMD Athlon Gold 3150U		4,061	NA
Intel Core i3-10110U @ 2.10GHz		4,028	\$434.17*
Intel Core i3-1000NG4 @ 1.10GHz		4,018	NA
AMD Athlon 300U		4,008	NA
AMD Ryzen 3 3250U		3,993	NA
AMD Ryzen Embedded R1505G		3,966	NA
AMD Ryzen 3 3200U		3,907	NA
Intel Core i5-L16G7 @ 1.40GHz		3,405	\$281.00*
Intel Pentium Silver N5020 @ 1.10GHz		3,404	NA
AMD Ryzen Embedded R1305G		3,329	NA

	Intel Core i3-10110Y @ 1.00GHz		3,278	\$287.00*
				...

 CPU Benchmarks

	AMD Athlon Silver 3050e		2,930	NA
	AMD A6-9400		2,717	NA
	AMD 3015e		2,703	NA
	Intel Pentium Silver N5030 @ 1.10GHz		2,681	NA
	Intel Core i3-7102E @ 2.10GHz		2,521	\$225.00*
	AMD 3020e		2,487	NA
	Intel Celeron N4120 @ 1.10GHz		2,487	NA
	Intel Pentium 6405U @ 2.40GHz		2,367	\$161.00*
	Intel Core i3-6102E @ 1.90GHz		2,349	\$225.00*
	AMD Ryzen 3 3250C		2,332	NA
	Intel Pentium 5405U @ 2.30GHz		2,275	\$161.00*
	Intel Pentium 4417U @ 2.30GHz		2,260	\$161.00*
	Intel Celeron 6305 @ 1.80GHz		2,227	NA
	Intel Celeron 4305UE @ 2.00GHz		1,908	NA
	Intel Pentium 4425Y @ 1.70GHz		1,691	\$161.00*
	Intel Celeron N4000C @ 1.10GHz		1,611	NA
	Intel Celeron N4020 @ 1.10GHz		1,589	NA
	Intel Celeron 3867U @ 1.80GHz		1,482	\$107.00*
	Intel Celeron 5205U @ 1.90GHz		1,414	\$107.00*
	Intel Celeron 4205U @ 1.80GHz		1,331	\$107.00*
	Intel Celeron 1020M @ 2.10GHz		1,275	NA
	Intel Pentium A1020 @ 2.41GHz		1,265	NA
	AMD R-272F APU		1,215	NA
	AMD A6-9220C		1,151	NA
	AMD PRO A4-4350B		1,093	NA
	AMD A4-9120e		899	NA
	AMD A4-9120C		894	NA

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		> Internet Bandwidth			

